

**WEST**

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L7: Entry 12 of 14

File: DWPI

Jul 24, 1996

DERWENT-ACC-NO: 1994-018318

DERWENT-WEEK: 199633

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TITLE: Adjusting method for head gap in wire dot impact printer - involves setting head to predetermined reference head gap, detecting printing flight time of wires and reference printing flight times or respective pins

INVENTOR: AKUTSU, N; ISHIKAWA, M ; ISHIMIZU, H ; KASAI, T ; KISHIMOTO, M ; KOMORI, C ; OOISHI, N ; SAKAINO, H ; TANUMA, J

PATENT-ASSIGNEE:

ASSIGNEE

CODE

OKI ELECTRIC IND CO LTD

OKID

PRIORITY-DATA:

1992JP-0330816

December 11, 1992

1992JP-0190315

July 17, 1992

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
GB 2269137 B	July 24, 1996	N/A	001	B41J025/308
GB 2269137 A	February 2, 1994	N/A	081	B41J025/308
US 5518323 A	May 21, 1996	N/A	040	B41J002/30

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-NO
GB 2269137B	July 14, 1993	1993GB-0014630	N/A
GB 2269137A	July 14, 1993	1993GB-0014630	N/A
US 5518323A	July 14, 1993	1993US-0091210	N/A

INT-CL (IPC): B41J 2/30; B41J 25/308

RELATED-ACC-NO: 1996-107790

ABSTRACTED-PUB-NO: GB 2269137A

BASIC-ABSTRACT:

The method involves setting a wire dot head to a predetermined position of a reference head gap. A printing pattern is printed onto a predetermined printing media by a number of pins provided at the wire dot head. Reference printing time information based on the printing is detected. The wire dot head is set to the predetermined position of the reference head gap, a test printing is performed, and printing time information of the test printing is detected.

A shift amount of the wire dot head for shifting the head gap to an optimum value is calculated based on the reference printing time information and the printing time information of the test printing. The wire dot head is shifted by the shift amount.

ADVANTAGE - Provides high accurate detection fo head gap and improved printing quality.

ABSTRACTED-PUB-NO:

GB 2269137B

EQUIVALENT-ABSTRACTS:

A method of adjusting the head gap of a wire dot impact printer, having a print head including a plurality of print wires, the method comprising adjusting the head gap on the basis of a test printing time determined by printing onto a sample printing medium and a pre-established reference printing time, wherein the reference printing time is determined adaptively by printing onto a reference printing medium with the head gap set to a reference head gap.

US 5518323A

A method of adjusting a head gap for a wire dot impact printer having a wire dot head with a plurality of printing wires, predetermined ones of the printing wires having sensors associated therewith at which voltage varies based on displacement of the associated printing wire, said method comprising the steps of:

- (a) setting a wire dot head to a predetermined reference head gap position;
- (b) printing a printing pattern onto a predetermined printing media, a printing time thereof being previously known, by a plurality of printing wires provided at said wire dot head;
- (c) detecting with the sensors reference printing time information based on the printing;
- (d) setting said wire dot head to said predetermined reference head gap position, performing a test printing onto a test printing media, the printing time thereof to be determined, the thickness of the test printing media and that of a printing media for actual printing being the same, and detecting with the sensors printing time information of said test printing;
- (e) calculating a shift amount of the wire dot head for shifting said head gap to an optimum value based on said reference printing time information and said printing time information of said test printing; and
- (f) shifting said wire dot head by said shift amount.

CHOSEN-DRAWING: Dwg.10/36 Dwg.1 Dwg.11/36

TITLE-TERMS: ADJUST METHOD HEAD GAP WIRE DOT IMPACT PRINT SET HEAD PREDETERMINED  
REFERENCE HEAD GAP DETECT PRINT FLIGHT TIME WIRE REFERENCE PRINT FLIGHT TIME  
RESPECTIVE PIN

DERWENT-CLASS: P75 T01 T04

EPI-CODES: T01-J08; T04-G01A; T04-G10A;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1994-013929

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L7: Entry 10 of 14

File: JPAB

Jun 13, 1991

PUB-NO: JP403138722A

DOCUMENT-IDENTIFIER: JP 03138722 A

TITLE: METHOD FOR INPUTTING PRINTING FORMAT DATA OF PRINTER

PUBN-DATE: June 13, 1991

## INVENTOR-INFORMATION:

NAME

ARAI, KAZUAKI

## ASSIGNEE-INFORMATION:

NAME

OKI ELECTRIC IND CO LTD

COUNTRY

N/A

APPL-NO: JP01276121

APPL-DATE: October 25, 1989

INT-CL (IPC): G06F 3/12

## ABSTRACT:

PURPOSE: To shorten required printing time by detecting the paper thickness of the printing start position of each printing format when test printing, and storing that detected paper thickness data to the storage part of a printer as a printing format data corresponding it to the coordinate value of the printing start position.

CONSTITUTION: At the time of test printing, the control part 12 of a printer 3 drives a platen gap adjustment motor and presses the top end surface of a printing head 16 to a routine format sheet 6 on a platen, the paper thickness of the printing start position at the printing frame 6a is detected by a detection sensor, and that detection result is stored as a paper thickness data at a random access memory (BBRAM) 22, in accordance with the printing start position data of the printing frame 6a. After that, the platen gap is adjusted by the platen gap adjustment motor in accordance with the paper thickness of the printing start position, and the printing to the printing frame 6a by the printing head 16 is executed while moving the printing head by a space motor 14. Thus, the total required printing time is shortened.

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**WEST****Freeform Search****Database:**

US Patents Full-Text Database  
 JPO Abstracts Database  
 EPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

**Term:**

19 not 17

**Display:**

10

**Documents in Display Format:**

TI

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1

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**Search History****Today's Date:** 7/12/2000

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,JPAB,EPAB,DWPI,TDBD	19 not 17	20	<u>L10</u>
USPT,JPAB,EPAB,DWPI,TDBD	15 same test\$3	34	<u>L9</u>
USPT,JPAB,EPAB,DWPI,TDBD	wear\$3	440011	<u>L8</u>
USPT,JPAB,EPAB,DWPI,TDBD	16 with test\$3	14	<u>L7</u>
USPT,JPAB,EPAB,DWPI,TDBD	((12 or 13) with 11 ) with L4	884	<u>L6</u>
USPT,JPAB,EPAB,DWPI,TDBD	((12 or 13) with 11 ) same L4	1394	<u>L5</u>
USPT,JPAB,EPAB,DWPI,TDBD	printer	304333	<u>L4</u>
USPT,JPAB,EPAB,DWPI,TDBD	wear\$3	440011	<u>L3</u>
USPT,JPAB,EPAB,DWPI,TDBD	thickness or kind or stock or medium or media	2742562	<u>L2</u>
USPT,JPAB,EPAB,DWPI,TDBD	adjust\$5	1947839	<u>L1</u>

	Type	Hits	Search Text	DBs	Time Stamp
53	BRS	1862888	(KIND OR STOCK OR MEDIA OR MEDIUM OR TYPE)	USPAT	2000/07/12 09:15
54	BRS	0	adjust4	USPAT	2000/07/12 09:15
55	BRS	631520	thickness	USPAT	2000/07/12 09:15
56	BRS	81812	printer	USPAT	2000/07/12 09:19
57	BRS	941379	adjust\$4	USPAT	2000/07/12 09:21
58	BRS	2181580	(TYPE\$1 OR MATERIAL\$1)	USPAT	2000/07/12 09:29
59	BRS	952489	adjust\$5	USPAT	2000/07/12 09:33
60	BRS	1639947	type	USPAT	2000/07/12 09:33
61	BRS	583093	(STOCK OR MEDIA OR MEDIUM)	USPAT	2000/07/12 09:34
62	BRS	54	(PRINTER SAME (((STOCK OR MEDIA OR MEDIUM)) WITH (ADJUST\$5) WITH (TYPE)))	USPAT	2000/07/12 09:35

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1	IS&R	L1	389	(( "347/19" ) or ("399/15" ) ).CCLS.	USPAT	2000/07/12 14:26			0
2	BRS	L2	8447	test\$ near (pattern\$1 or plot\$)	USPAT	2000/07/12 14:28		Truncation Overflow. Return string from Server is: 5`0`0`TES	1
3	BRS	L3	85	1 and 2	USPAT	2000/07/12 14:29			0
4	BRS	L4	627097	test or tests or testing or tested	USPAT	2000/07/12 15:10			0
5	BRS	L5	471063	plot or plots or pattern or patterns	USPAT	2000/07/12 15:10			0
6	BRS	L6	8129	4 near 5	USPAT	2000/07/12 15:11			0
7	BRS	L7	85	1 and 6	USPAT	2000/07/12 15:11			0